

Werlatone® Mismatch Tolerant® High Power Broadband RF Combiners and Dividers will operate into High Load VSWR Conditions, for extended periods, without damage. With extensive experience as a supplier to military platforms worldwide **Werlatone®** designs its High Power Broadband Combiners, Power Dividers, and N-Way Combiners for proper operation in the most stringent operating conditions.

Features:

High Power Wide Bandwidths Small Size Custom Designs Available

Electrical Specifications:

Type: 2-Way Combiner/Divider (60/40 Split)
 Frequency: 140 - 180 MHz
 Power: 500 W CW, 8 kW Peak
 Insertion Loss: 0.4 dB Max.
 VSWR: 1.30:1 Max.
 Phase Balance: $\pm 5^\circ$ Max.
 Amplitude Balance: ± 0.3 dB Max.
 Isolation: Non-Isolated

Mechanical Specifications:

Type: Connectorized
 Material: Aluminum 6061-T6
 Surface Finish: Chem. Film Per MIL-DTL-5541F Type II Class 3 (Clear Iridite) RoHS Compliant Available
 Operating Temperature: -55°C to $+75^\circ\text{C}$
 Storage Temperature: -60°C to $+85^\circ\text{C}$
 Weight: 29 ounces
 Size: 6.0 x 5.0 x 1.06"

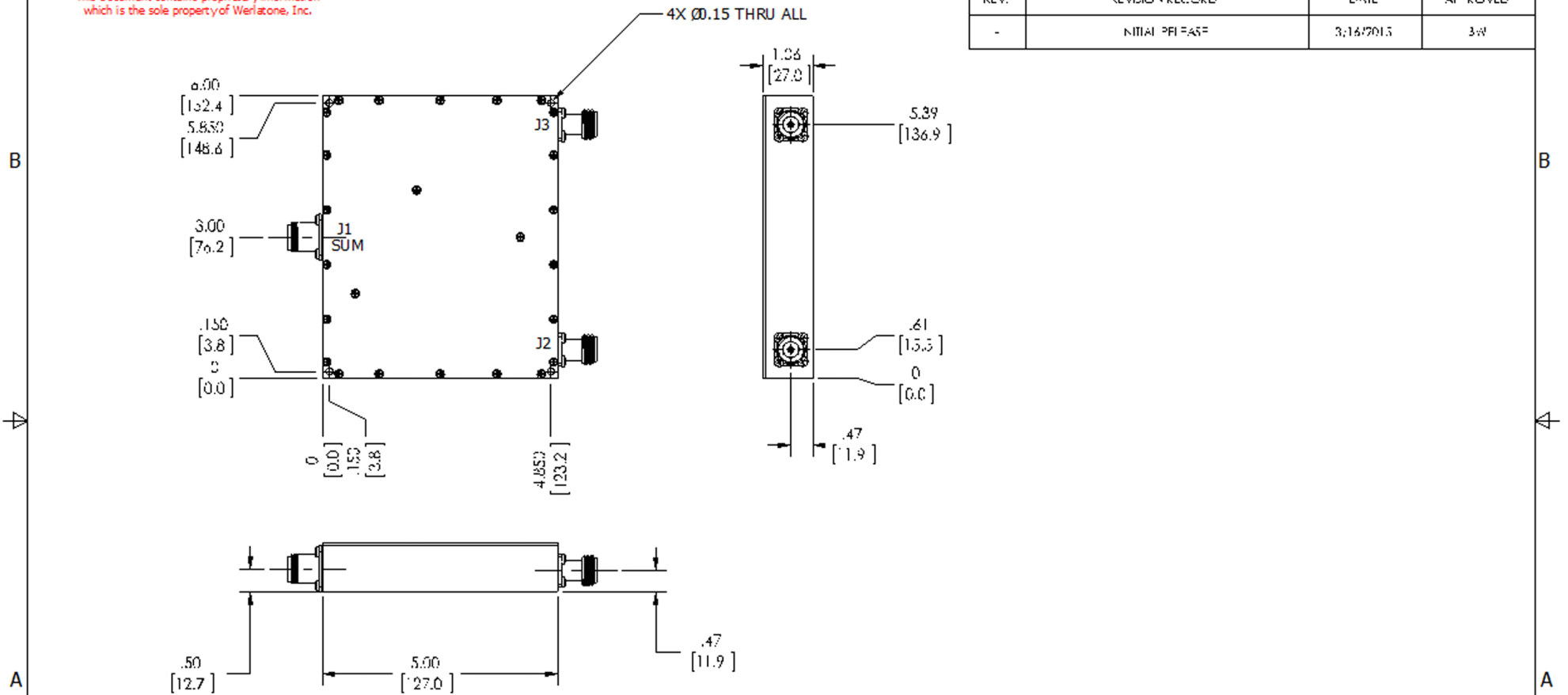
Connector Configurations:

| Model | Sum Port (J1) | Input/Output (J2) | Input/Output (J3) |
|-----------|---------------|-------------------|-------------------|
| D10271-10 | N Female | N Female | N Female |

When specified, Werlatone® High Power Combiners and RF Dividers will tolerate full input failures on adjacent port(s). This insures that remaining transmitter(s) may continue to operate until the amplifier system can be properly shut down for maintenance. Choose your specific connector configuration from a list of options. Additional connector configurations for our High Power RF Combiners/Dividers, Non-Coherent Combiners, and N-Way Combiners are available upon request.

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| REVISION HISTORY | | | |
|------------------|-----------------|-----------|----------|
| REV. | REVISION RECORD | DATE | APPROVAL |
| - | INITIAL RELEASE | 3/16/2013 | 3/W |



NOTES: UNLESS OTHERWISE SPECIFIED

- MATERIAL:** ALUMINUM 6061-T6
- FINISH:** CHEM FILM PER MIL-DTL-5541F TYPE 2 CLASS 3 (CLEAR)
- CONNECTORS:** ALL N (FEMALE)

| UNLESS OTHERWISE SPECIFIED | | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE |
|----------------------------|------|-----------|------|------|------|------|------|------|------|------|------|
| DESIGN | PLP | 3/15/2013 | | | | | | | | | |
| DRAWING | DATE | | | | | | | | | | |
| CHECK | DATE | | | | | | | | | | |
| INSTR | DATE | | | | | | | | | | |
| PROCESS | DATE | | | | | | | | | | |
| FINISH | DATE | | | | | | | | | | |
| ASSEMBLY | DATE | | | | | | | | | | |
| TEST | DATE | | | | | | | | | | |
| APPROVAL | DATE | | | | | | | | | | |
| REVISION | DATE | | | | | | | | | | |
| SCALE | 1:2 | | | | | | | | | | |

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| W | | WERLATONE SINCE 1965 | 17 Jon Barrett Rd Patterson, NY 12563 | |
| OUTLINE, 2 WAY | | | | |
| D10271 | | 21308-500 | | REV |
| NEXT ASSY USED ON | | SCALE 1:2 | | SHEET 1 OF 1 |

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